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P.L.A. PICTORIAL NO. 27 - JUNE, 1953. (Page 10) SAN-HO-CFA, TE BI TEST SLUICA (ATE ON THE HUAI RIVER

Work has already begun on the BUAT Control engineerin programme for 1953, and a million civilian labourers from Honar. Anhwei and Miangsu have reached the scene of action. One of the important pieces of work is the SAN-10-CHA which must be finished by the end of June this year, before the same flood.

One of the main river systems in China, the TARA River rises in the TARA-BE- lits, of Honen and flows the Lastern Sea after traversing eastern Roman and the northern parts of Anhwei and Kiangsu. The full length of the main stream is 1087 Km, and the approximate area of the drainage bacin is 220,000 sq. Km.

Up to 700 years ago this was a very fertile area; the towards the close of 12th century (in 1194 A.D.) the Emperor KUA C-TSUNG of the Northern Sung Dynasty breached the Yellow River banks in an effort to hinder the Tartar solding, and the HUAI River channel was stolen by the Yellow River. It is since this time that disasters have come to the Huai drainage area. Then the Japanese made their attack on Honan in 1938, Chiang's bandits in their efforts to escape again breached the dikes at HUA-YUAN-K'OU on the south of the river, and the waters entered the HUAI River system, but created at the same time an artificially flooded area that brought about the death by drowning of more than half a million people and the submergence of 14 million 100 of good paddy fields, making 12 million people homeless. This i; the cause of the present serious comercians that are found through the Huai R. basin (wide floods after beavy rains, smaller floods after light rains, and drought if there is no rain).

For the basic control of the Huai R. and its utilisation for the welfare of the people, our great leader Chairman hao issued the call in 1950 to make as a fixed objective the thorough repair of the Huai, and on Oct. 6th of that year the Huai Control Commission was set up to go on with the work under the direction of the Ministry of Water Conservancy according to the decisions promulgated by the Government Administrative Council.

It was estimated that five years would be needed to finish this great piece of constructive conservancy engineering but that after it was completed the increase in annual production of grain alone could exceed 2600 million CHIN, apart from the advantages to be gained by water transport and hydro-electric schemes.

SAN-HO-CFA is situated in the S.W. corner of HUAI-YIN county in northern Kiangsu at the junction of SAN-HO and the HUNG-TSE Lake. This loke's history dates from the time in 1194 when the Yellow R. waters were diverted into the Huai, bringing about the silting up of the outlet channel of the latter to the sea in N. Kiangsu; this caused an accumulation of flood waters (from hundreds of small streams along the upper and central reaches of the Fuci) slong the Kiangsu - Anhwei border, where a few small lakes and morshes already existing gradually extended in area, forming the present lake. There is much shallow water in it, and every time the flood waters from the Huai R. exceed its capacity to hold them, the dikes are over-topped or burst and the N. Kiangsu plain is submorged. The reactionary feudal Emperors of the MING are CHING dynasties found no method of controlling these flood disasters except the negative one of building adike all round the lake and making the flood waters flow south through SAN-FO and after passing successively through



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the PAO-YING, KAO-YU and SHAO-PE Lakes and the Grand Canal, ultimately to enter the Yangtze River. From hydrographic records that have been kept over a series of years, the maximum flow into the HUNG-TSE Lake from the Huai R. is 14,600 cubic metres per second, while the water channel into the Yangtze will take only 8,000 cub. metres/sec. Consequently the farmlands of more than ten counties in the lower river district of W. Kiengsu have been inundated every time there have been ilood waters in relatively large quantity. Yet in dry words show the HUNG-TSE Leke still flowed away through SAM-HO unitality emptied itself and nothing was left for irrigating the fields of the N. Kiengsu district, the low water also stopping the

level of HUGG-TSE pake and the flow of water through SAN-HO will be controlled. The engineering for its construction was JUM-HG-OHI Giversionary weir in the Middle Huai region. The well is based on the east bank of SAN-HO; its length is conly to that of the flood intake weir connected with the of the Chang flood diversion project. There are four parts making up the whole work: first the body of the weir, 697.75 metres long, this is of poured reinforced concrete. There are 63 sections with a sluice ate in each operated by electric motors, and one top of the woir there will be a highway bridge (and an operate bridge for manipulating the sluice gates) to facilitate the SAN-HO is to be closed by building a straw dam (T.N. using river-blocking dam over 300 metres long is to be built; and a water channel excavated for which more than four million cubic metres of earth will have to be moved.

As early as August, 1952, the Huai Control Commission SAN-HO-CHA, to ensure its completion within the time set. There were fully 300,000 tons of the needed materials (cement, yellow sand, stones and machinery), enough to load 10,000 wagons had they to be transported by train.

Regarding those engaged in the building, some have had experience in the CHING_CHIANG and the JUN-HO-CHI projects, and over 50,000 civilian labourers come from KAO-YU, HUAI-YIN, CHIANG-TU and SZU-YANG; in addition there are U.S.S.R water conservancy experts and many soldiers of the PLA - these once liberated the people of this region, and are now building up prosperity and happiness for them. When these soldiers reached he site they all felt strange; many of the articles they had never seen before nor even heard of, but after three months of studious effort most of them had a grasp of the technique, and some forged ahead of the general run of skilled workmen. Everywhere can be heard the remark: "When the SAN-HO-CHA is finished we shall control the Yellow River."

When the work at SAN-HO-CFA is completed the safety of the N. Kiengsu lower river district will be guaranteed even at times of unusual floods by the drawing off of the flood waters: at other times the volume of water in HUNG-TSE Lake will be maintained so these there will be a large amount flowing into the N. Kiengsu main irrigation channel through the KAO-LIANG-JUN inlet gate for the vetering of \$5,800,000 MOU of N. Kiengsu farmlands. The water level along the middle and lower Huai R. and in the M. Kiengsu irrigation channel will be kept constant, making these waterways permanently suitable for



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use by shipping which can come in from the Eastern and Yellow Sees and proceed directly to the TA-PIEH-SHAN district on the middle Huai R., and to WU-LUNG-CHI which lies within Honan province. In this way an uninterrupted interchange will be possible between the cotton of the reclaimed areas of N. Kiangsu from salt-yards of the lower river district, the table salt from salt-yards of the northern HUAI, the coal, bean, sorghum of N. Anhwei, and the tea, bamboos and drugs of the TA-PIEN-CHAN yarn and cloth of Shanghai, Wusih and other large citis and the other. The goods produced by the people of Kiangsu, Mahmand Anhwei will be guaranteed resulting in improvement in their material livelihood, while industrial and farming production will show rapid development. With the HUNG-TSE Lake under control, flowing through the SAN-HO-CHA. After the completion of the gradually dried out, making a further 1.5 million HeU of fertilo lend available for the production of grain.

